

## **HYBRID MICROTURBINE FOR GENERATION ELECTRICITY**

### **ABSTRACT OF THE DISCLOSURE**

A hybrid microturbine to produce electrical output power within a engine housing, having a combustor, and a two spool multi stage  
5 compressor wherein the 1st spool has a compressor rotor and a turbine rotor as a turbocharger and the 2<sup>nd</sup> rotor spool has an alternator rotor integrated with a compressor rotor and turbine rotor. The two individual compressor rotors have rotating blades attached and located in compressor housings with fluid communication. The alternator rotor as part of the 2<sup>nd</sup>  
10 spool has permanent magnets integrated and positioned in close proximity and co-axial to the electrical stator module having an iron laminated structure with electrical wires. Relative rotational motion between the stator and alternator rotor cause electricity to be generated.